

FIG.1

S11

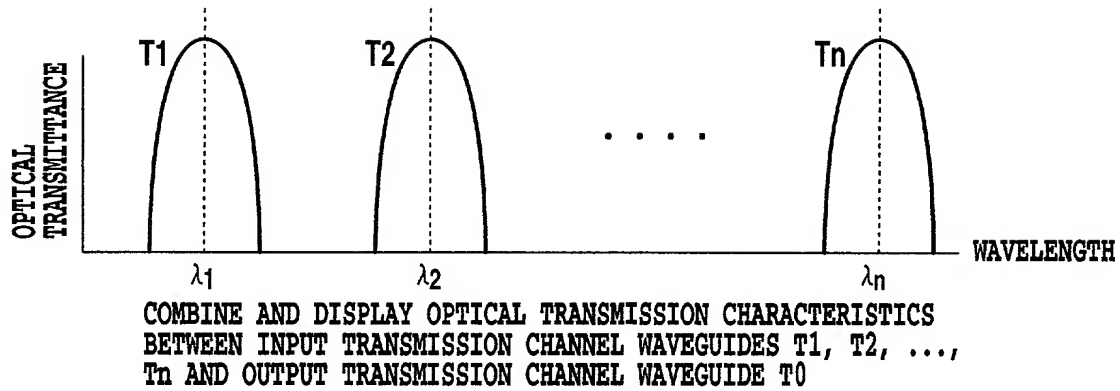


FIG.2A

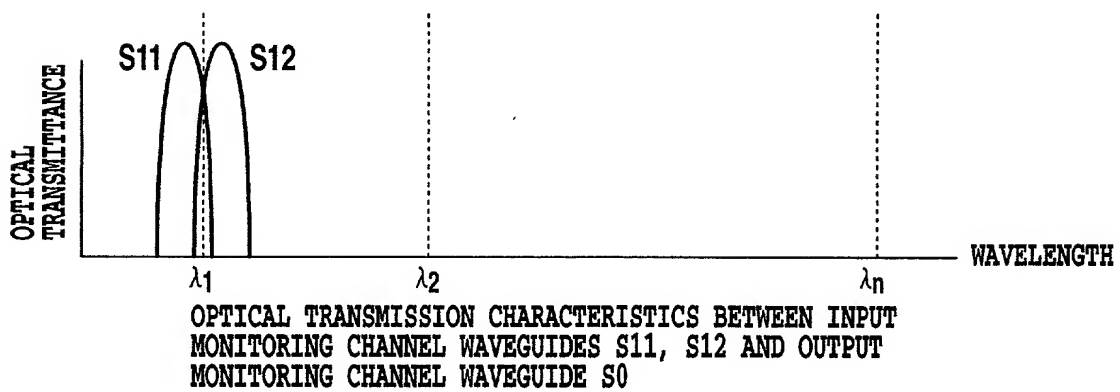


FIG.2B

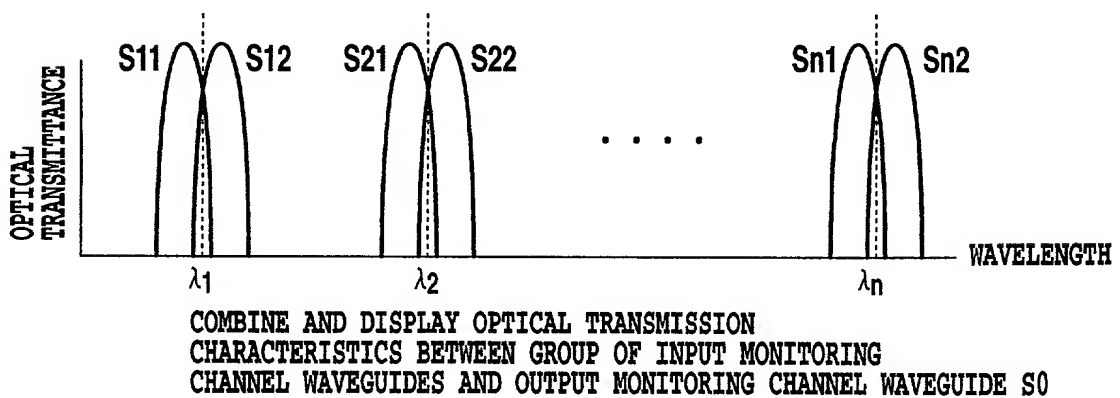


FIG.2C

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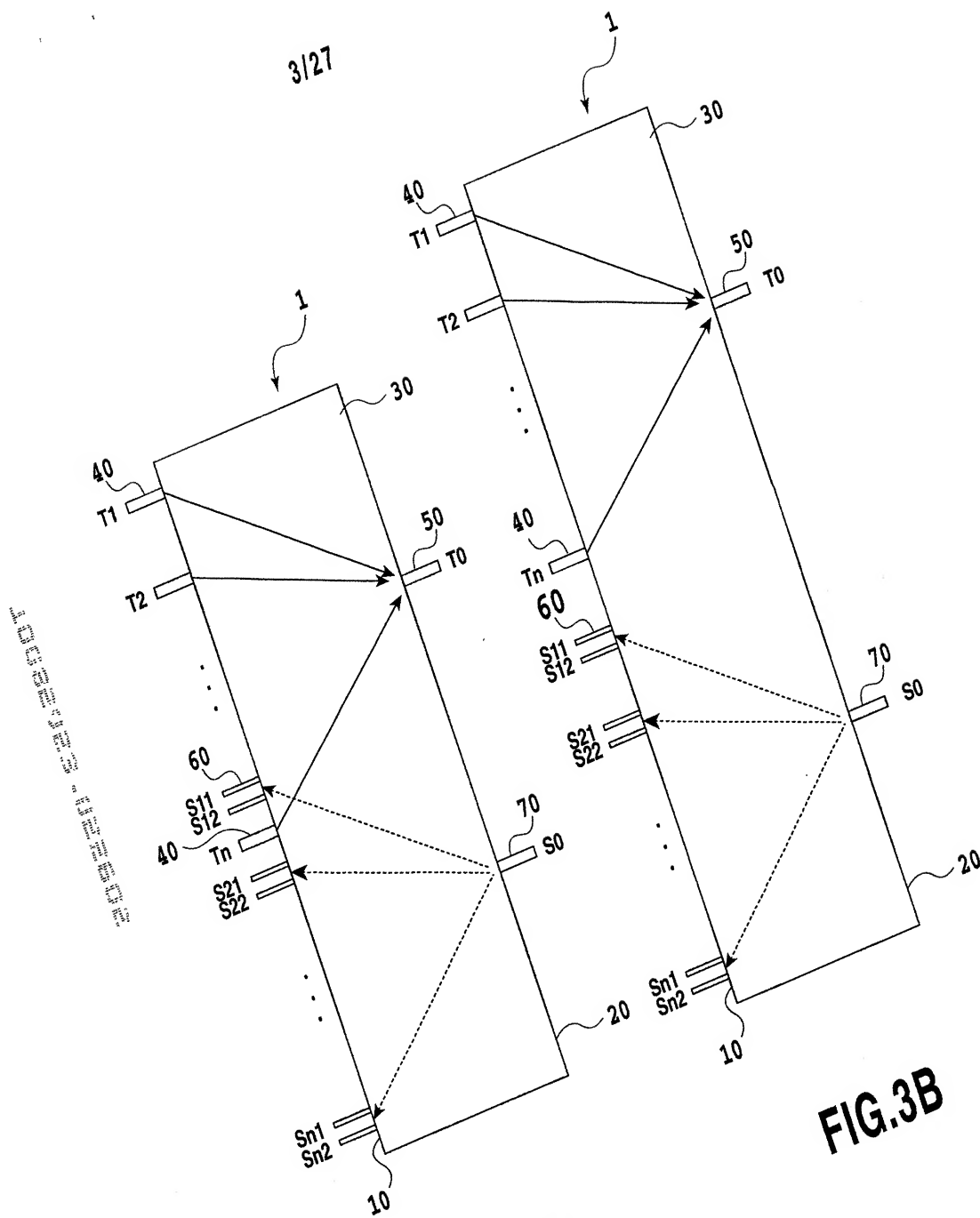
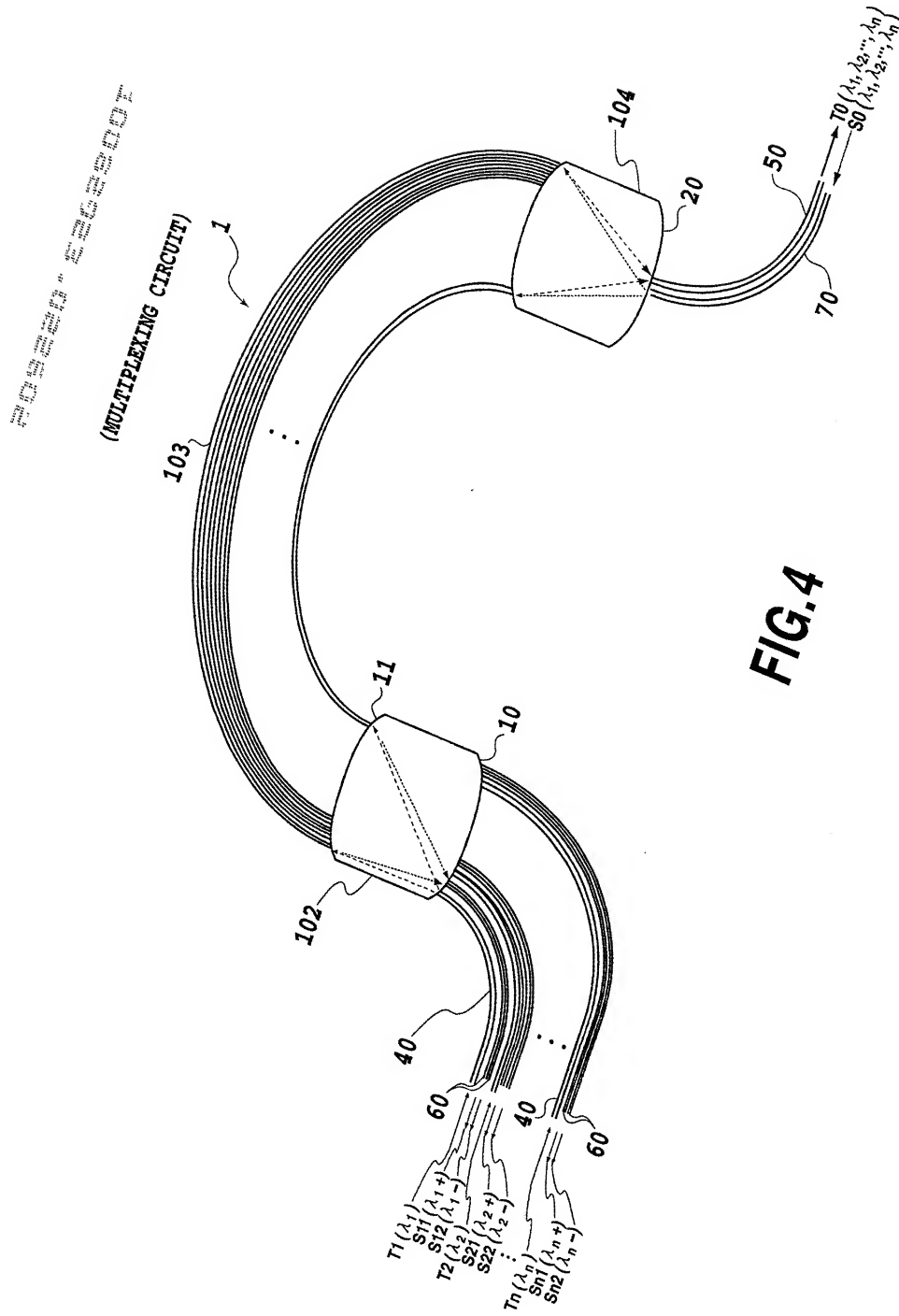


FIG. 3B

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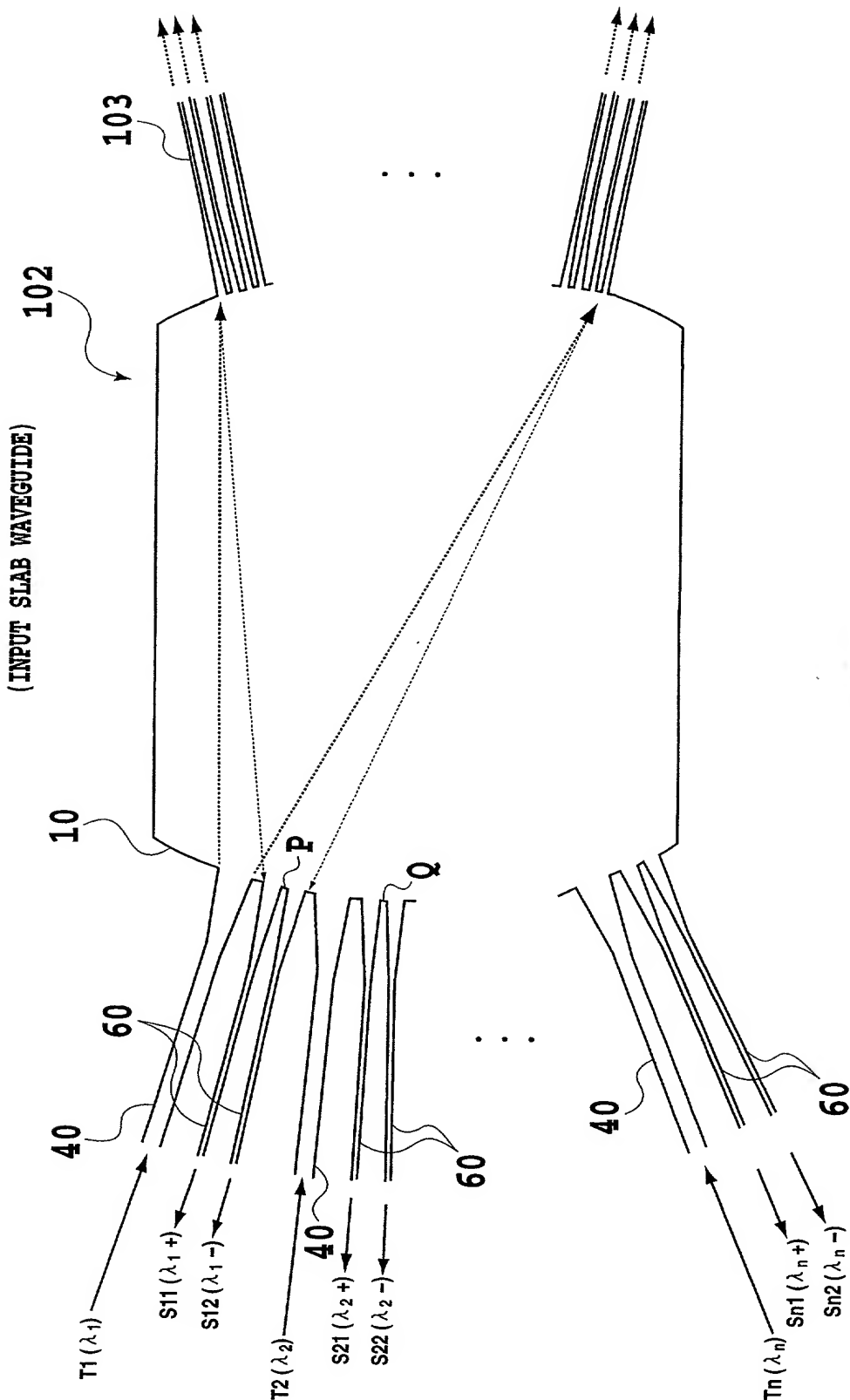


FIG.5

FIG. 6 is a schematic diagram of a waveguide device.

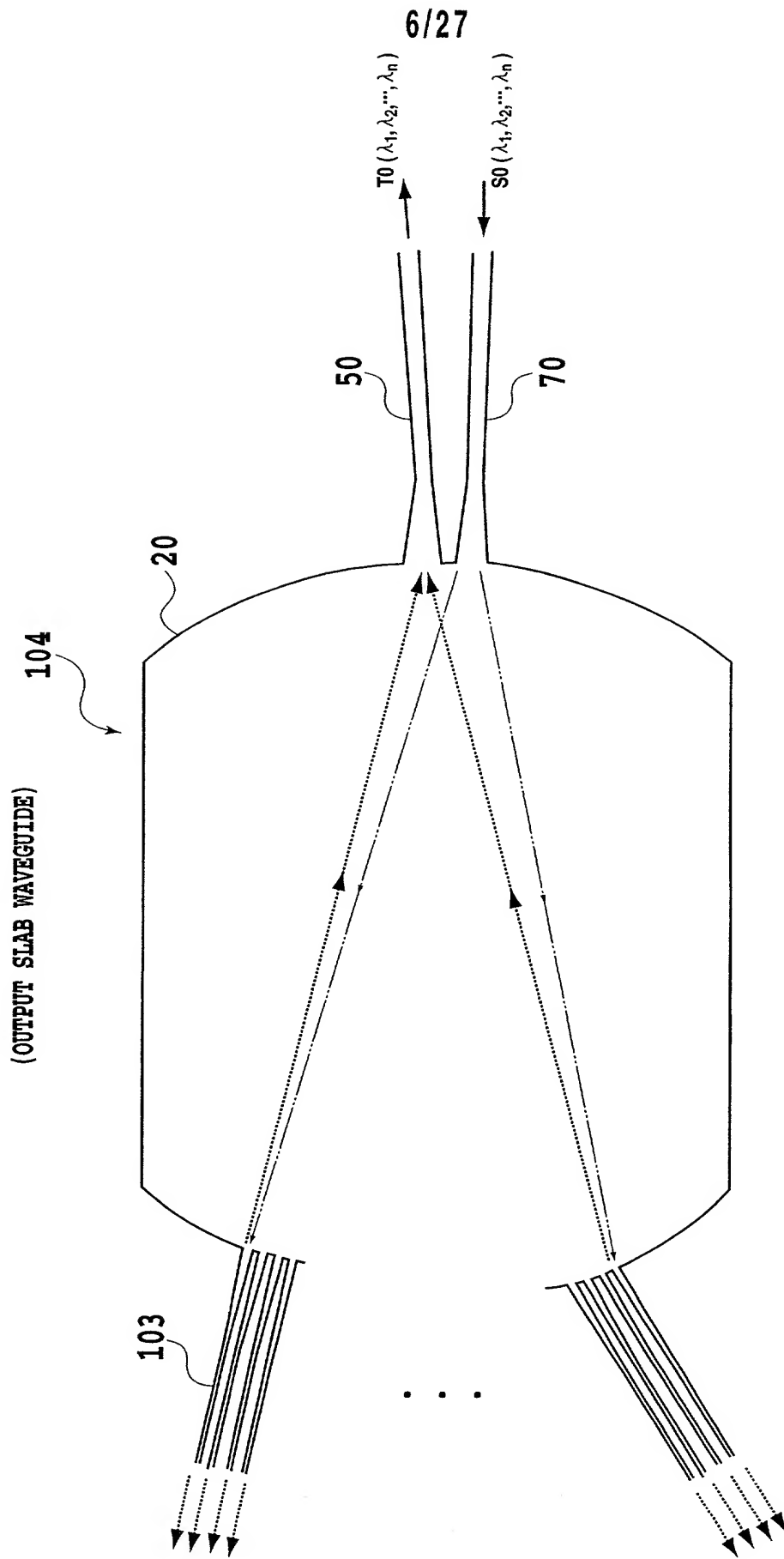


FIG.6

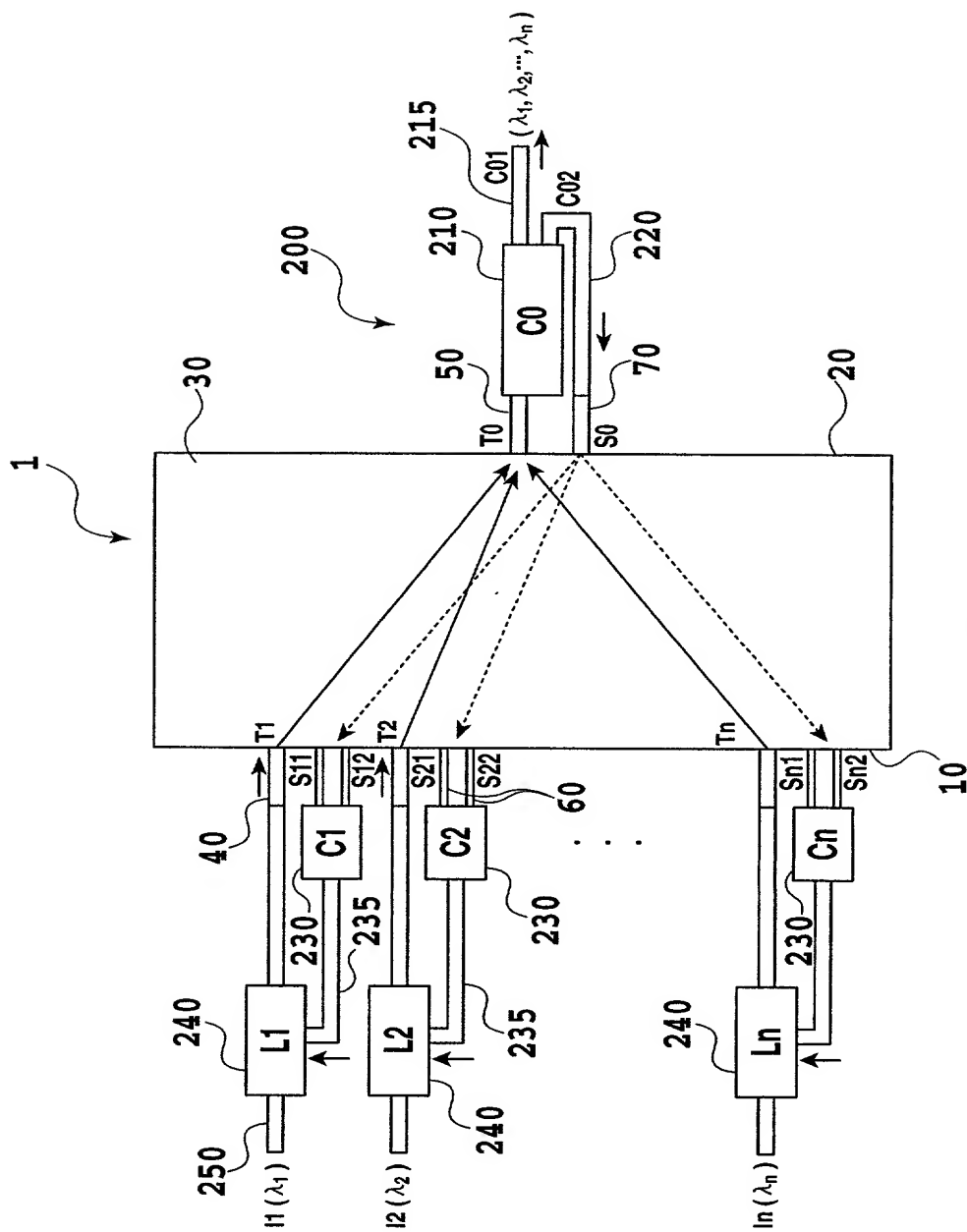


FIG. 7

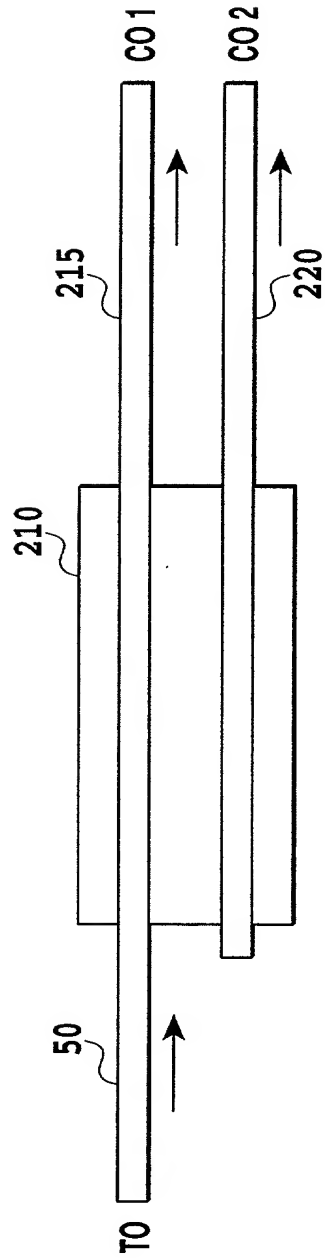


FIG.8

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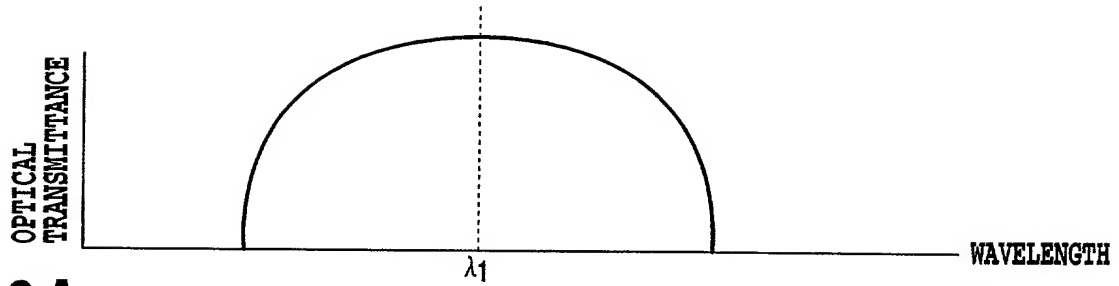


FIG.9A

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTIC BETWEEN T1 AND T0

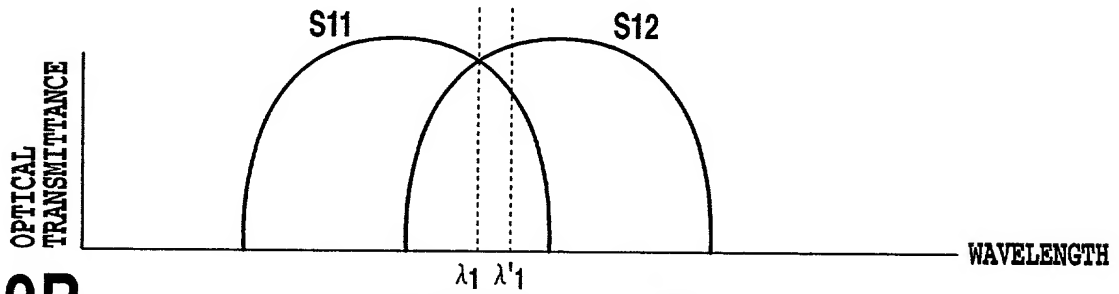


FIG.9B

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTICS BETWEEN S0 AND S11, S12

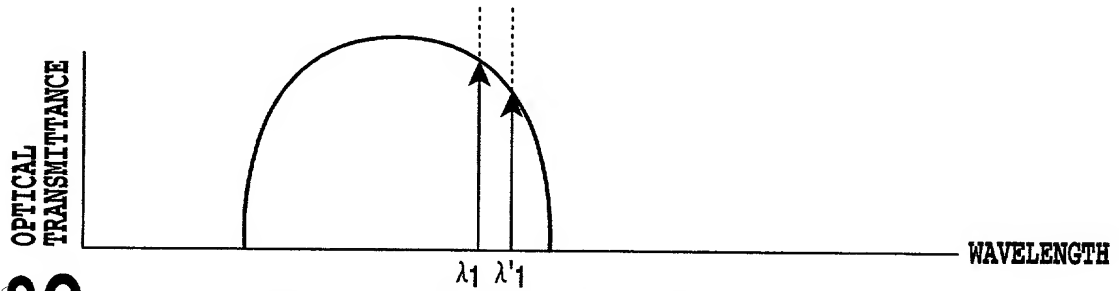


FIG.9C

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTIC BETWEEN S0 AND S11

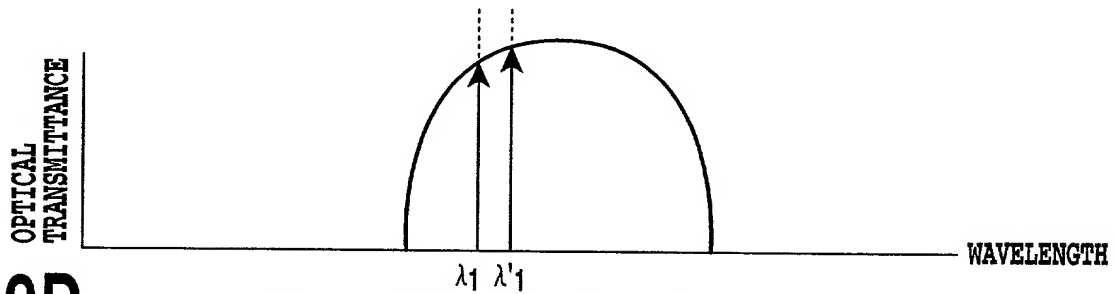


FIG.9D

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTIC BETWEEN S0 AND S12

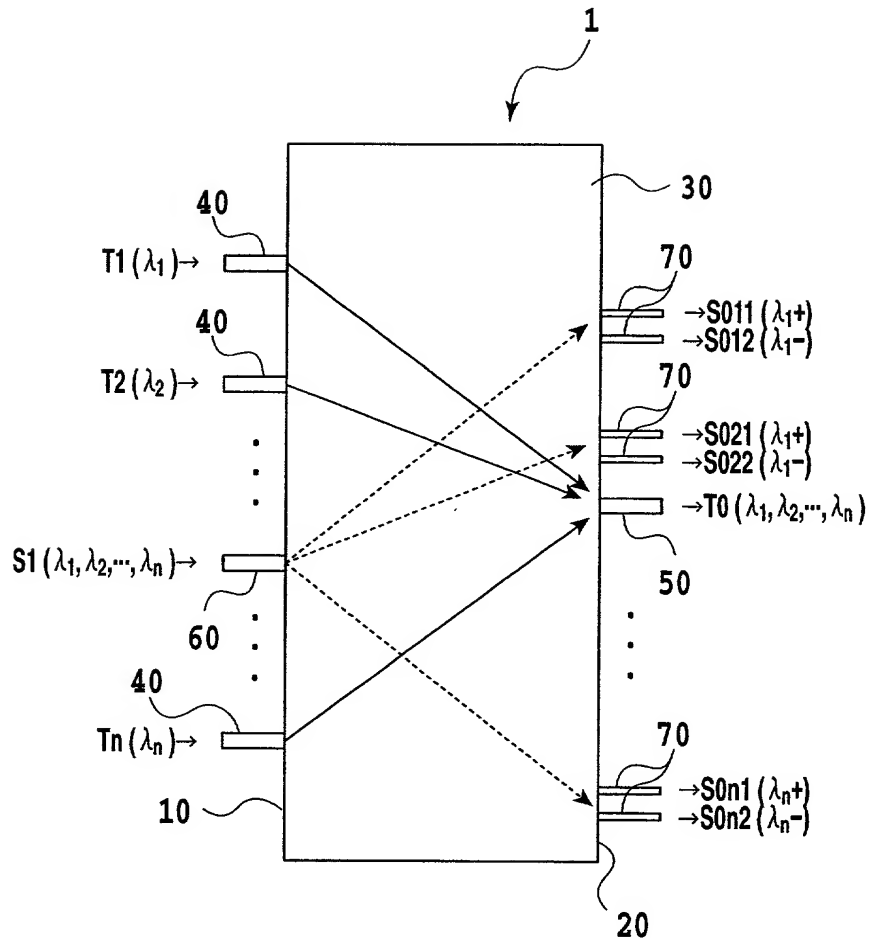


FIG.10

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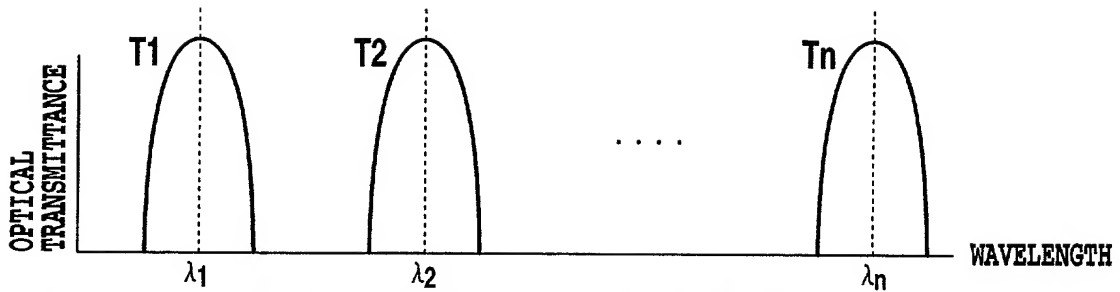


FIG.11A

COMBINE AND DISPLAY OPTICAL TRANSMISSION CHARACTERISTICS BETWEEN INPUT TRANSMISSION CHANNEL WAVEGUIDES T_1 , T_2 , ..., T_n AND OUTPUT TRANSMISSION CHANNEL WAVEGUIDE T_0

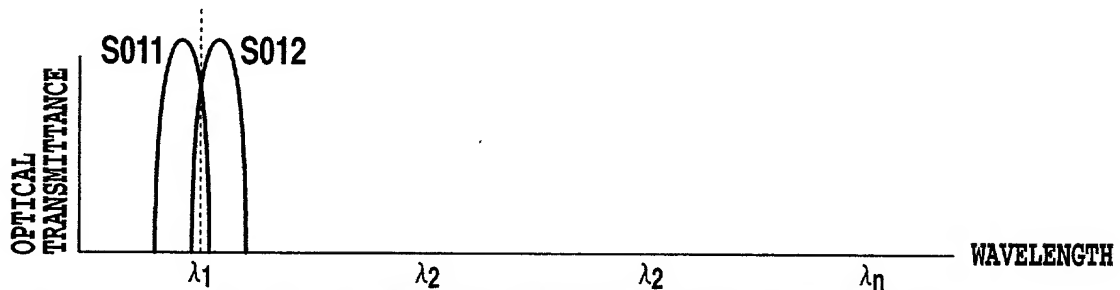


FIG.11B

OPTICAL TRANSMISSION CHARACTERISTICS BETWEEN INPUT MONITORING CHANNEL WAVEGUIDE S_1 AND OUTPUT MONITORING CHANNEL WAVEGUIDES S_{011} , S_{012}

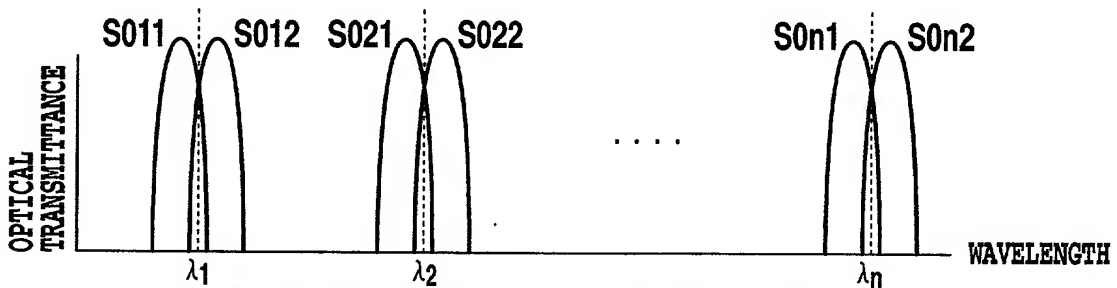


FIG.11C

COMBINE AND DISPLAY OPTICAL TRANSMISSION CHARACTERISTICS BETWEEN INPUT MONITORING CHANNEL WAVEGUIDE S_1 AND GROUP OF OUTPUT MONITORING CHANNEL WAVEGUIDES S_{011} , S_{012} , S_{021} , S_{022} , ..., S_{0n1} , S_{0n2}

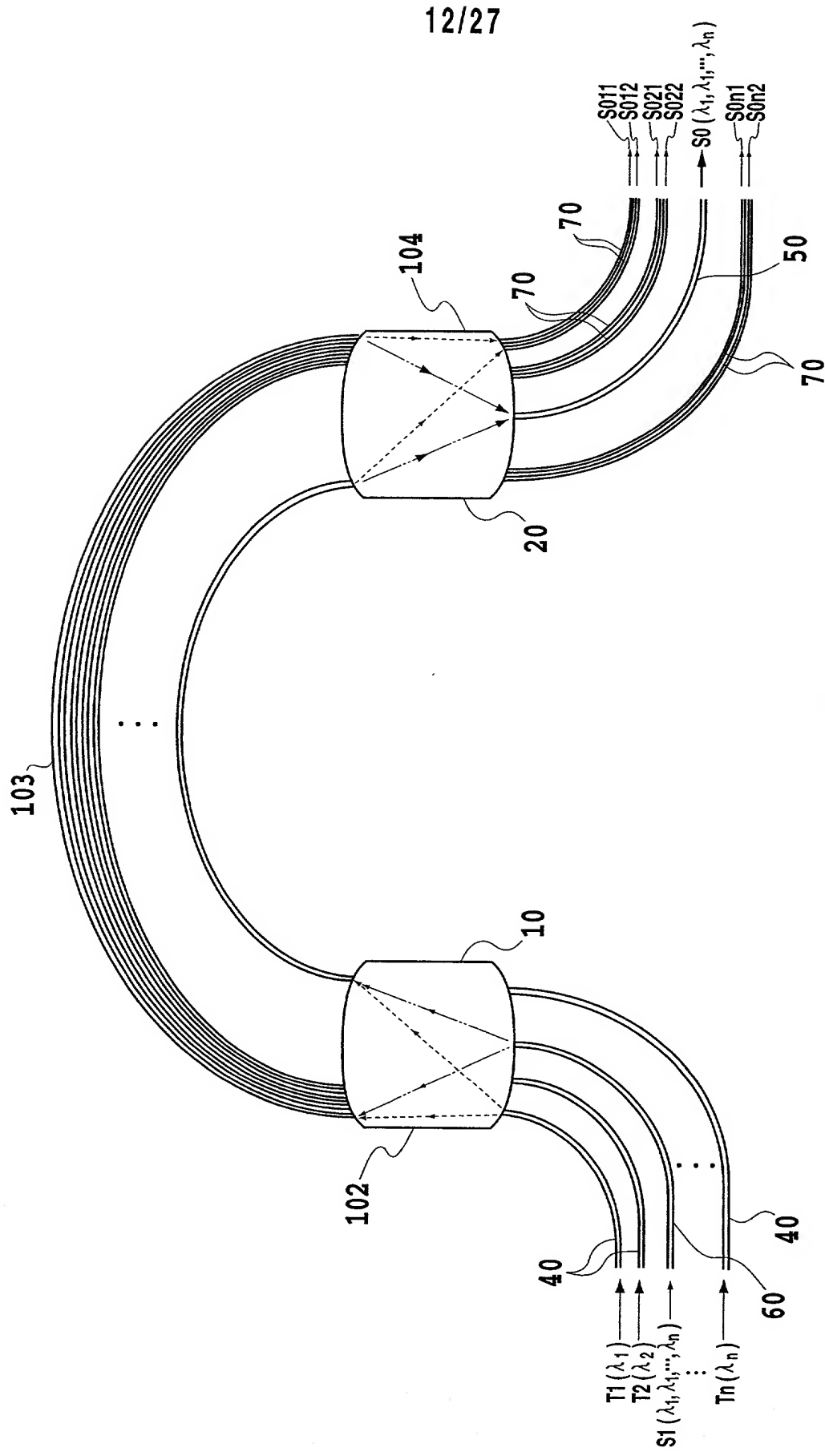


FIG.12

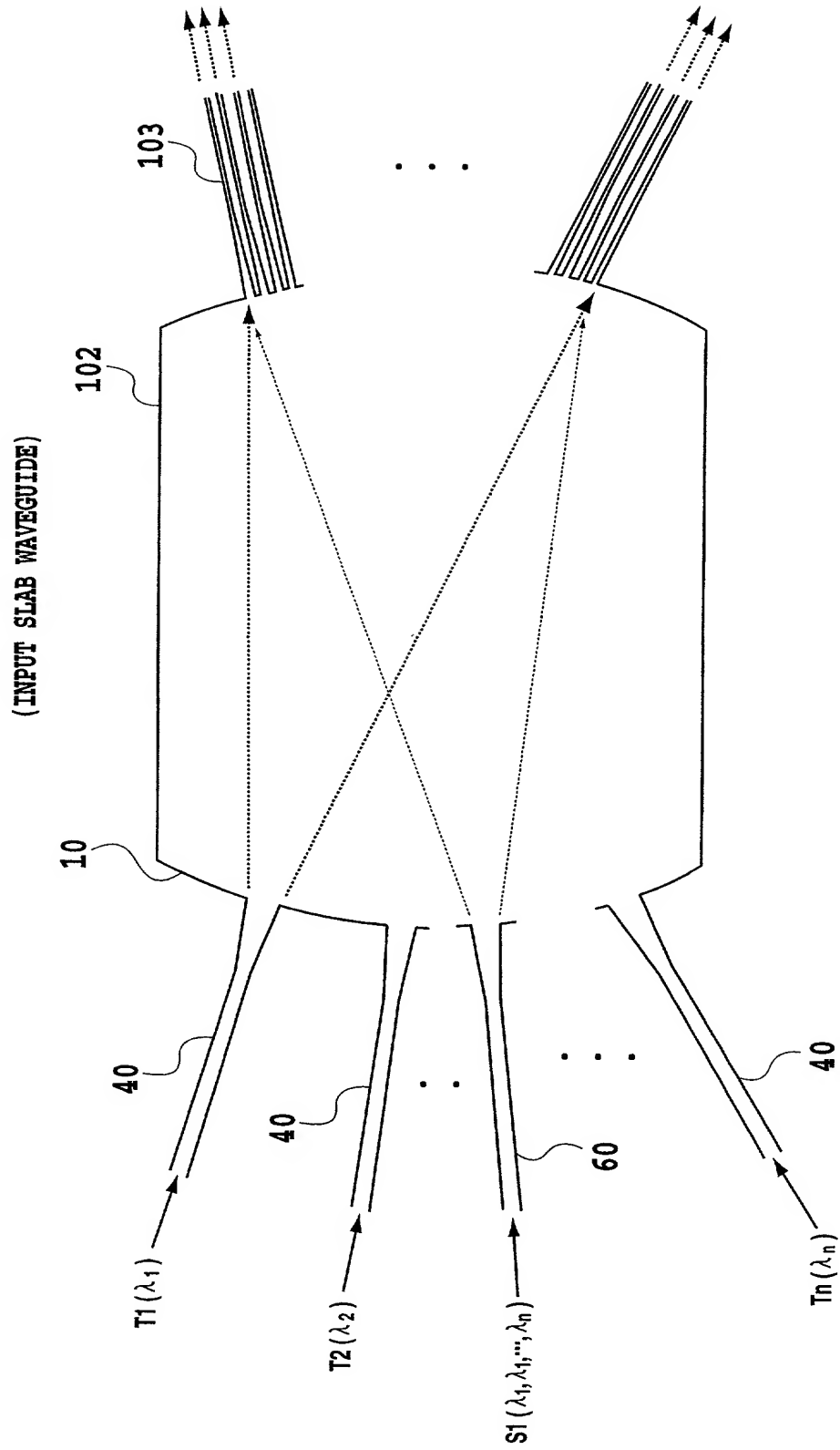


FIG.13

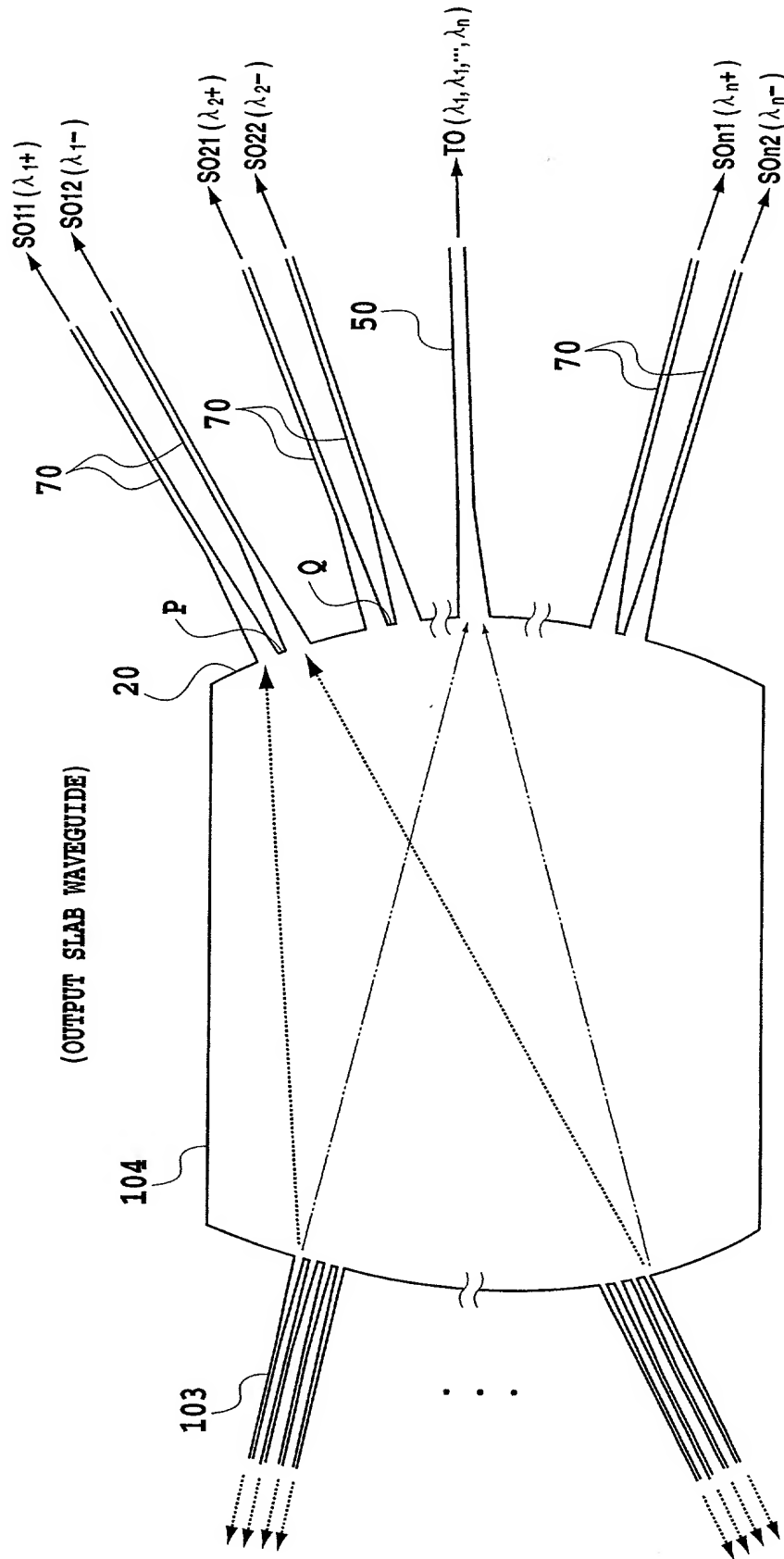


FIG.14

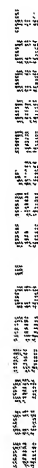


FIG.15

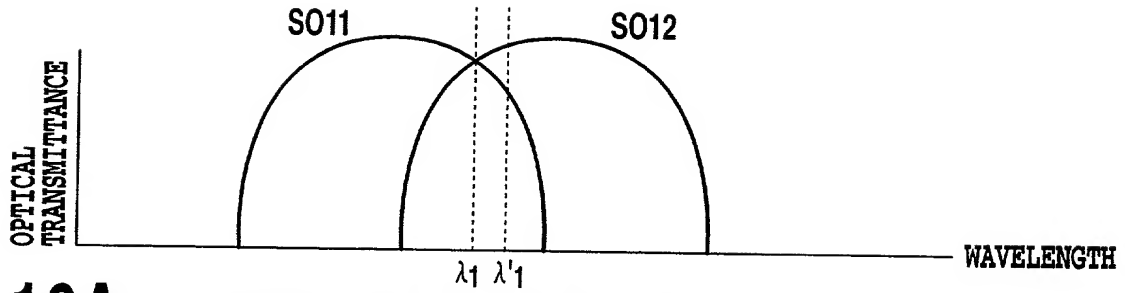


FIG. 16A

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTICS BETWEEN SI AND S011, S012

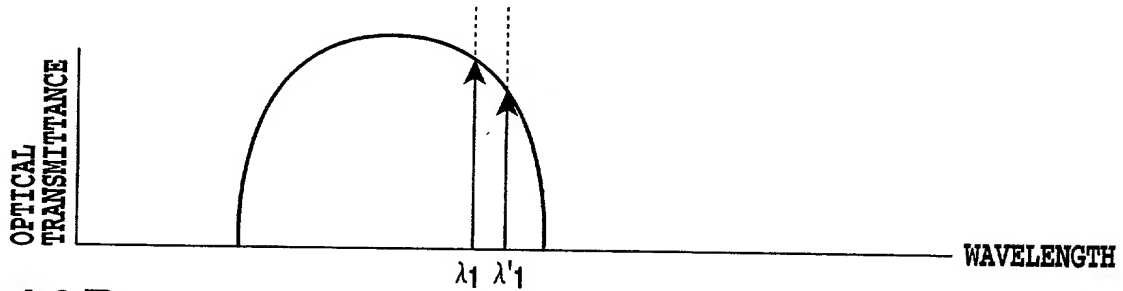


FIG. 16B

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTIC BETWEEN SI AND S011

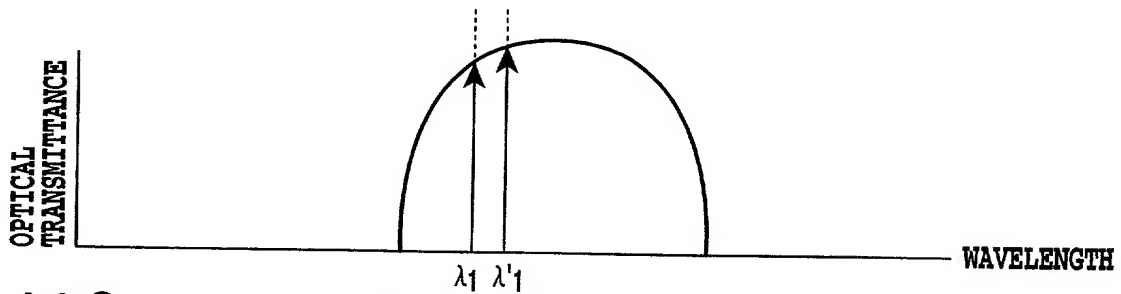


FIG. 16C

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTIC BETWEEN SI AND S012

FIG. 17

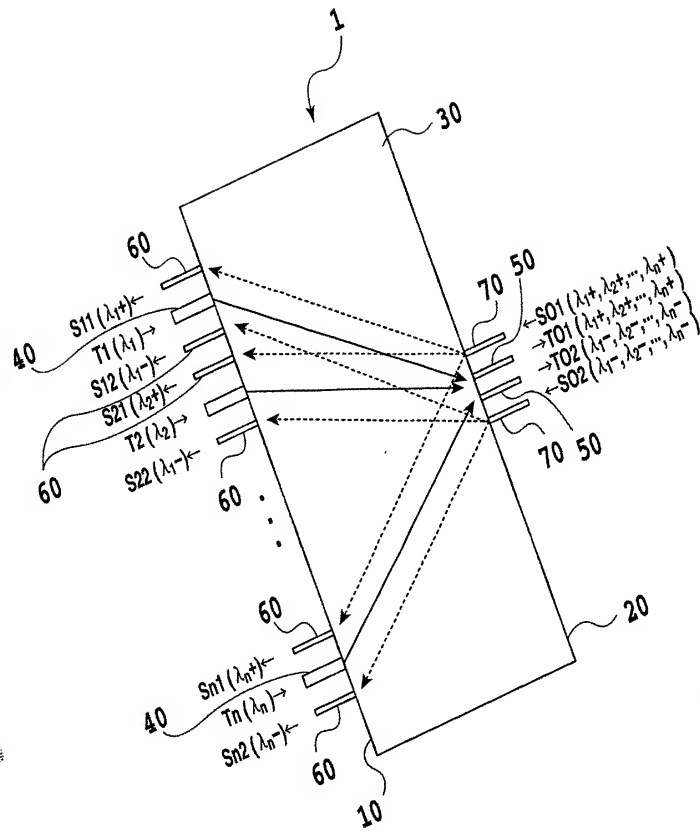


FIG.17

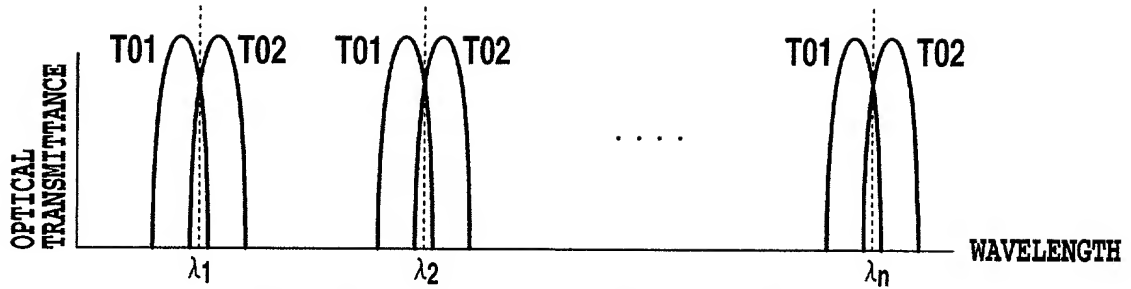


FIG.18A (b) COMBINE AND DISPLAY OPTICAL TRANSMISSION CHARACTERISTICS BETWEEN INPUT TRANSMISSION CHANNEL WAVEGUIDES T1, T2, ..., Tn AND OUTPUT TRANSMISSION CHANNEL WAVEGUIDES T011, T012

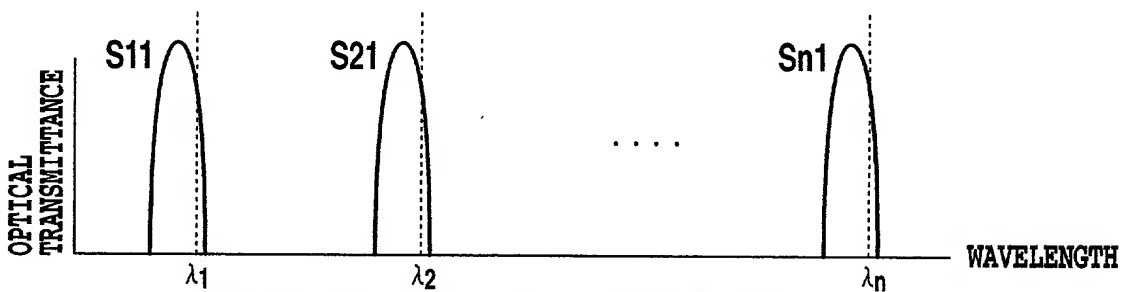


FIG.18B (c) COMBINE AND DISPLAY OPTICAL TRANSMISSION CHARACTERISTICS BETWEEN INPUT MONITORING CHANNEL WAVEGUIDES S11, S21, ..., Sn1 AND OUTPUT MONITORING CHANNEL WAVEGUIDE S01

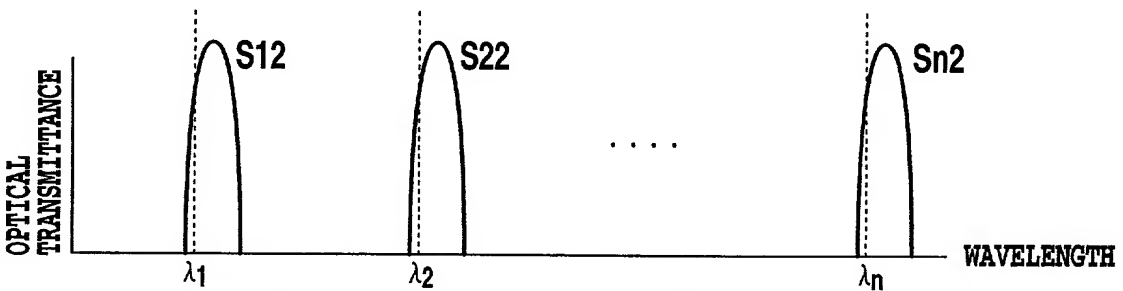


FIG.18C (d) COMBINE AND DISPLAY OPTICAL TRANSMISSION CHARACTERISTICS BETWEEN INPUT MONITORING CHANNEL WAVEGUIDES S12, S22, ..., Sn2 AND OUTPUT MONITORING CHANNEL WAVEGUIDE S02

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(MULTIPLEXING CIRCUIT)

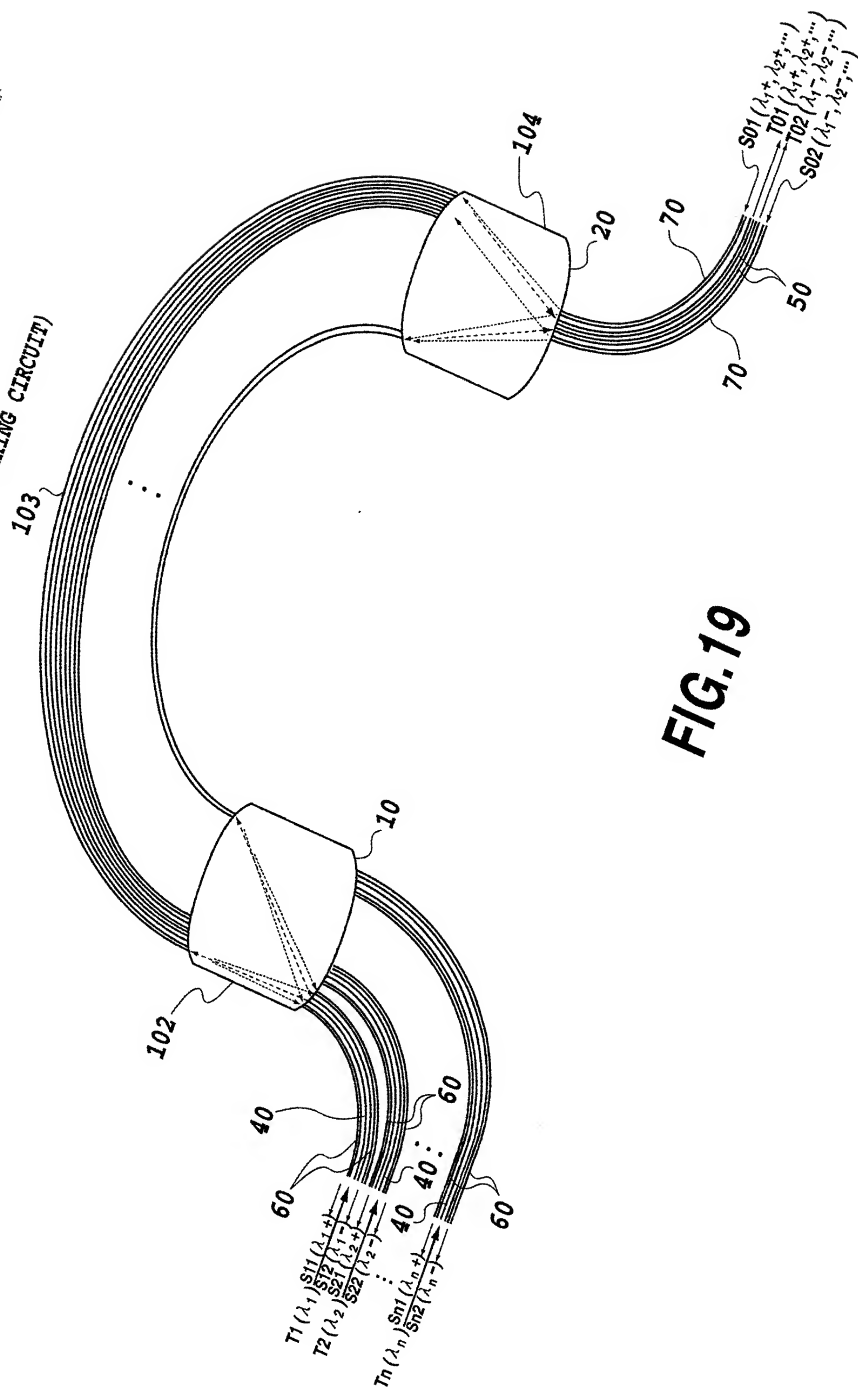


FIG. 19

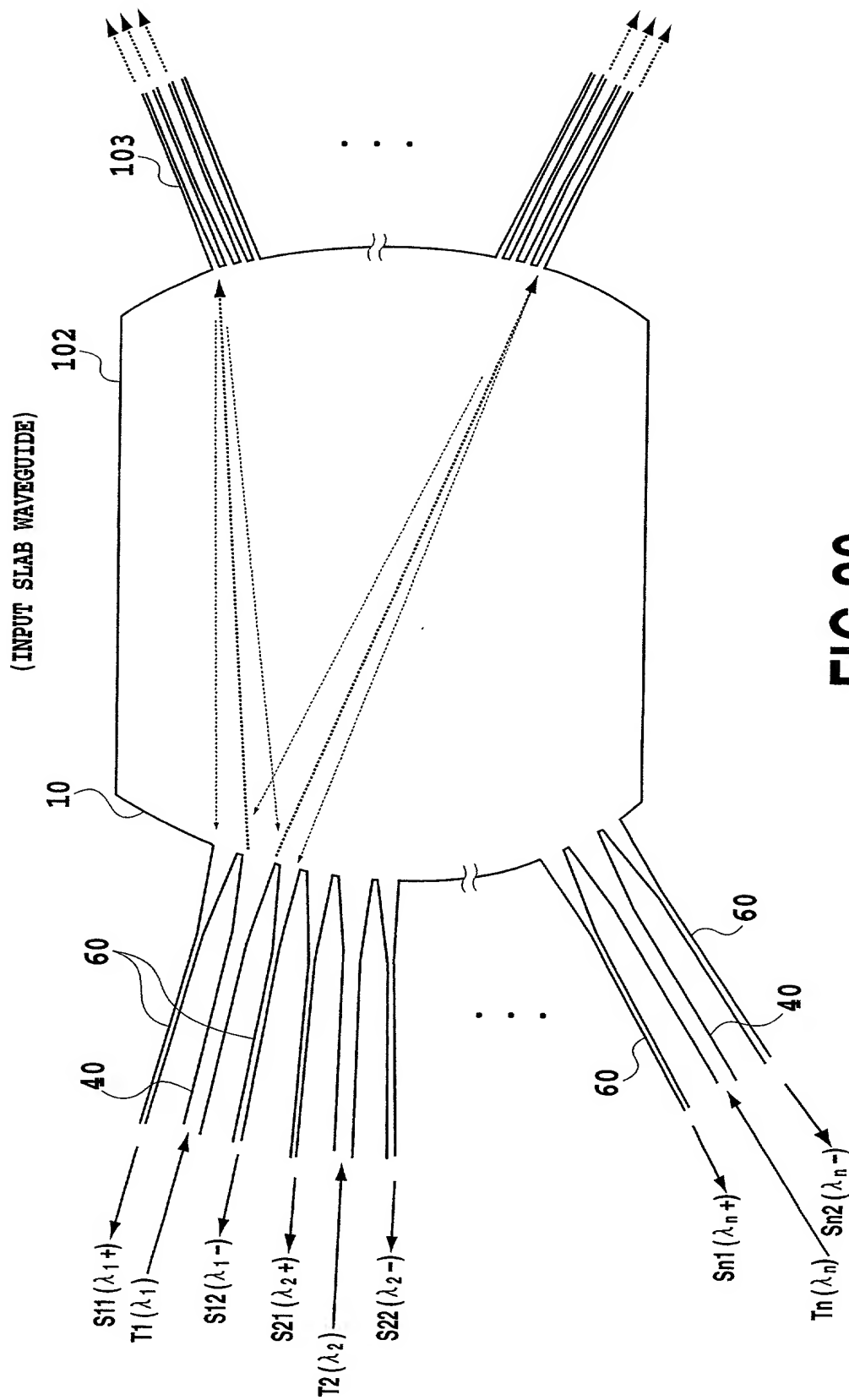


FIG. 20



FIG. 21

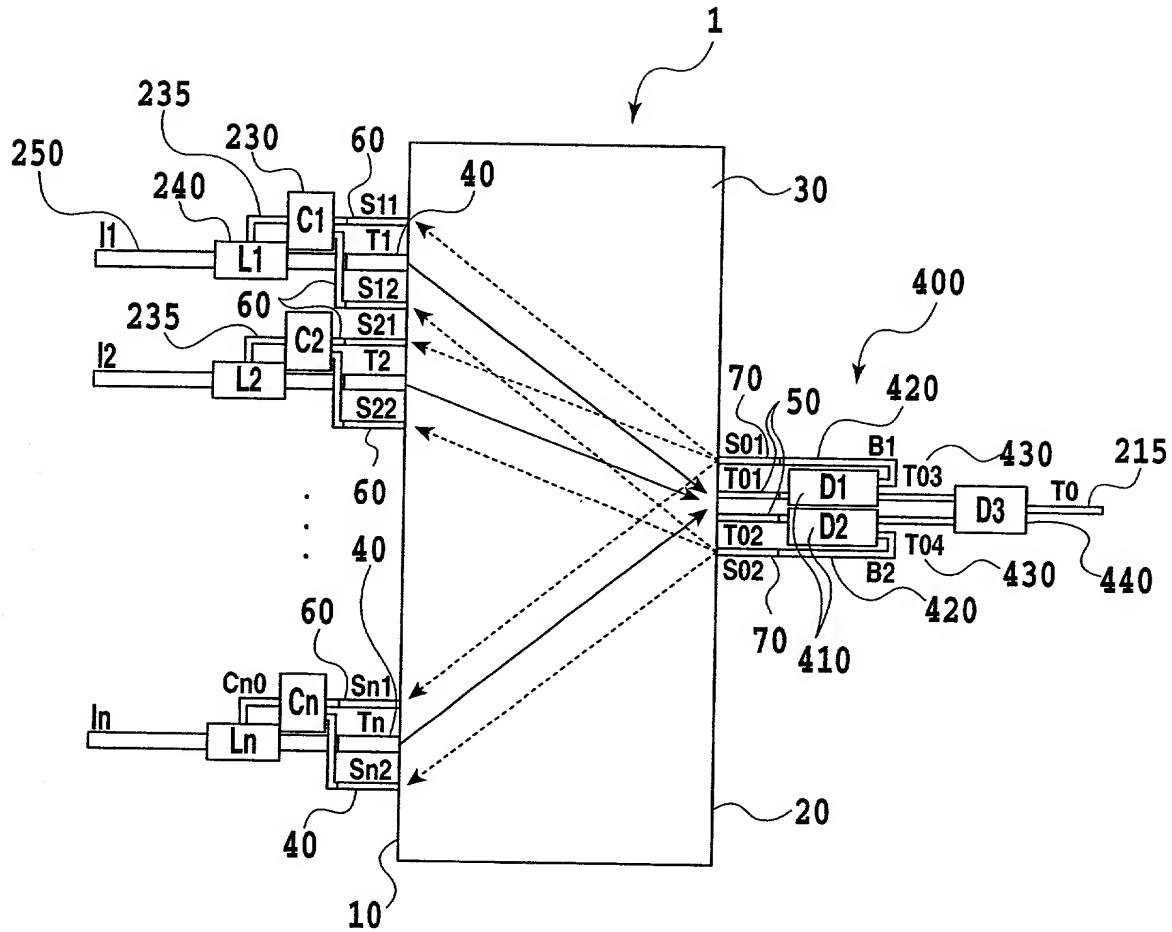
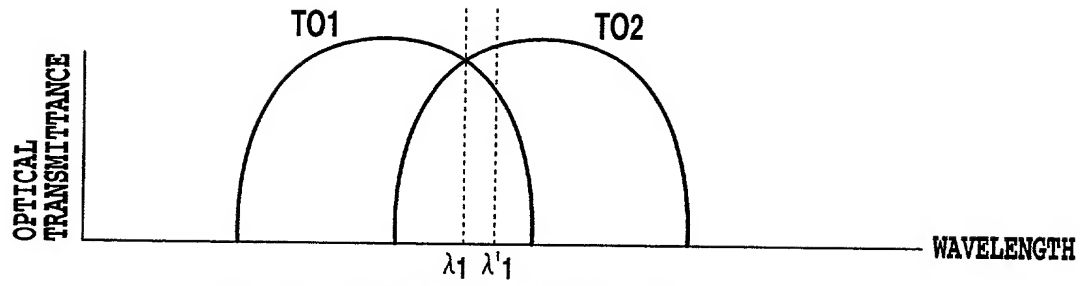
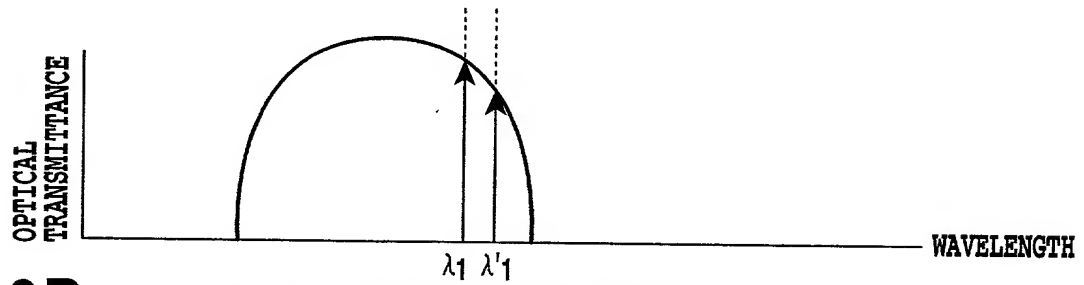


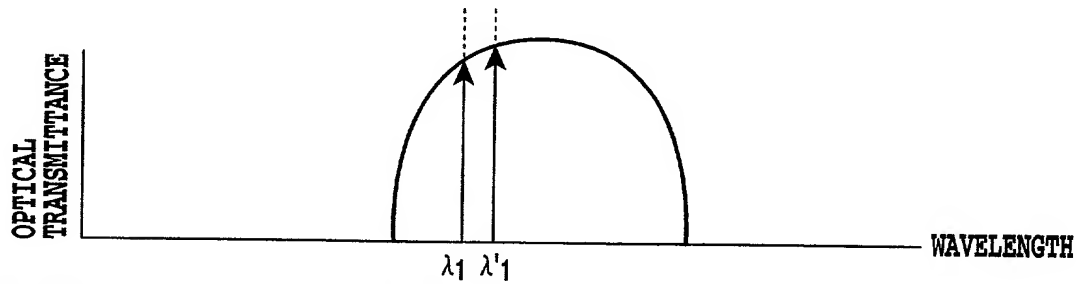
FIG.22

**FIG.23A**

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTICS BETWEEN T1 AND T01, T02

**FIG.23B**

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTIC BETWEEN S01 AND S11

**FIG.23C**

OPTICAL TRANSMISSION WAVELENGTH
CHARACTERISTIC BETWEEN S02 AND S12

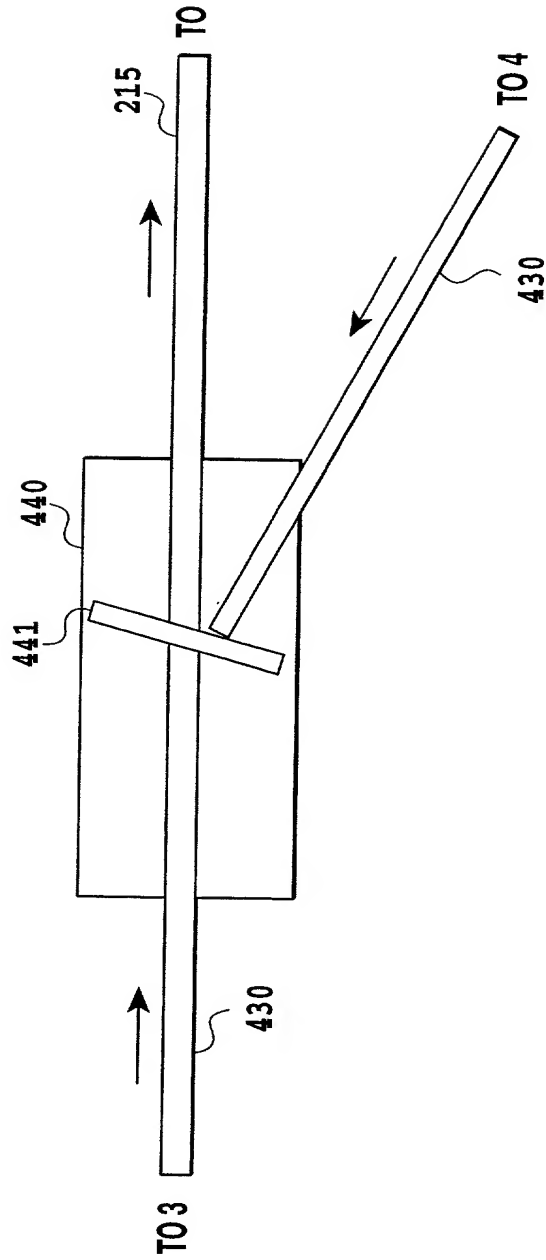


FIG.24

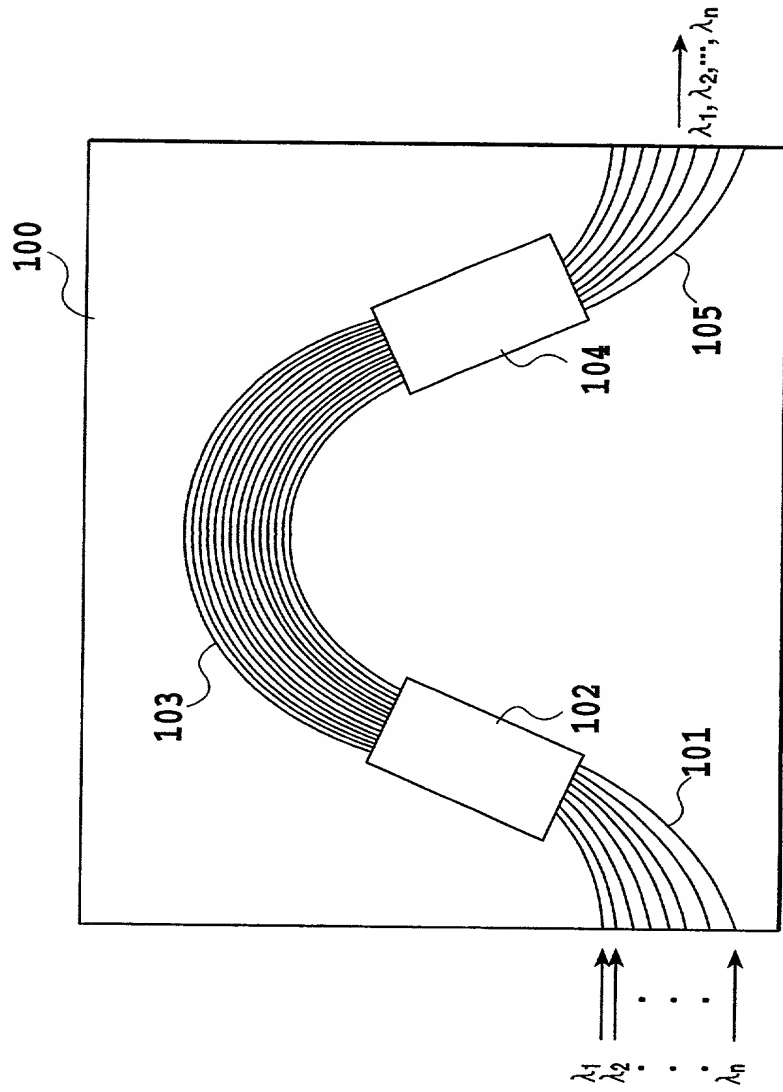
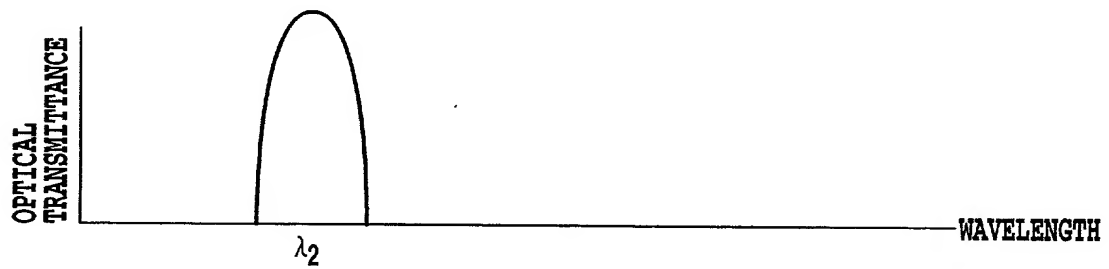


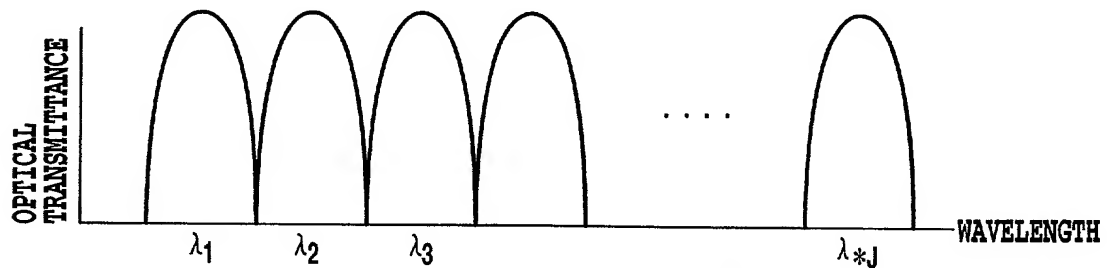
FIG.25



(c) OPTICAL TRANSMISSION CHARACTERISTIC BETWEEN #1 AND *j

FIG.27A

(d) OPTICAL TRANSMISSION CHARACTERISTIC BETWEEN #2 AND *j

FIG.27B

(e) SYNTHESIZE AND DISPLAY OPTICAL TRANSMISSION CHARACTERISTICS BETWEEN #1, #2, ..., #n AND *j

FIG.27C